

Abstracts

Analysis and Design of a Circular Disc 3 dB Coupler

M.E. Bialkowski and S.T. Jellett. "Analysis and Design of a Circular Disc 3 dB Coupler." 1994 Transactions on Microwave Theory and Techniques 42.8 (Aug. 1994 [T-MTT]): 1437-1442.

A 3 dB quadrature hybrid in the form of a 4-port microstrip circular disc, is investigated experimentally and theoretically. The hybrid consists of additional reactive stubs and impedance steps to achieve greater operational bandwidth. A relative bandwidth of over 20% is easily obtained for this device.

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